

What is claimed is:

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1. A lens unit comprising:
 - at least a lens including a zoom lens;
 - a light quantity adjusting means;
 - an electronic optical shutter provided on a subsequent stage of said zoom lens; and
 - an optical shutter driving portion for controlling said electronic optical shutter to an opening of a predetermined pattern.
 2. The lens unit according to claim 1 wherein said light quantity adjusting means is a diaphragm for changing the size of an opening mechanically.
 3. The lens unit according to claim 1 wherein said light quantity adjusting means is a filter.
 4. The lens unit according to claim 1 wherein said electronic optical shutter is disposed near said light quantity adjusting means.
 5. The lens unit according to claim 1 wherein said electronic optical shutter is composed of a liquid shutter.

6. The lens unit according to claim 1 wherein said predetermined pattern is switched over to a pattern having an opening on the left and a pattern having an opening on the right alternately.

7. The lens unit according to claim 1 wherein said predetermined pattern changes corresponding to zoom condition of said zoom lens.

8. The lens unit according to claim 1 wherein said electronic optical shutter is used as said light quantity adjusting means at the same time.

9. The lens unit according to claim 8 wherein said electronic optical shutter is composed of a liquid shutter.

10. A camera comprising:
at least a lens including a zoom lens;
a light quantity adjusting means;
an electronic optical shutter provided on a subsequent stage of said zoom lens; and
an optical shutter driving portion for controlling said electronic optical shutter to an opening of a predetermined pattern.

11. The camera according to claim 10 wherein said light quantity adjusting means is a diaphragm for changing the size of an opening mechanically.

12. The camera according to claim 10 wherein said light quantity adjusting means is a filter.

13. The camera according to claim 10 wherein said electronic optical shutter is disposed near said light quantity adjusting means.

14. The camera according to claim 10 wherein said electronic optical shutter is composed of a liquid shutter.

15. The camera according to claim 10 wherein said predetermined pattern is switched over to a pattern having an opening on the left and a pattern having an opening on the right alternately.

16. The camera according to claim 10 wherein said predetermined pattern changes corresponding to zoom condition of said zoom lens.

17. The camera according to claim 10 wherein said electronic optical shutter is used as said light quantity

adjusting means at the same time.

18. The camera according to claim 17 wherein said
electronic optical shutter is composed of a liquid shutter.

19. The camera according to claim 10 wherein said light
quantity adjusting means is an electronic shutter constituted of
a solid image pickup device.

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